

Invited Presentations, Gregory J. Frost

17 April 2017

- 2016 *Using measurements and models to understand atmospheric chemistry - Some highlights of NOAA ESRL research.* Graduate Course in Atmospheric Chemistry, Department of Chemistry, Ohio State University, Columbus, Ohio.
- 2016 *Understanding emissions and tropospheric chemistry using NUCAPS and VIIRS.* NESDIS Joint Polar Satellite System Proving Ground and Risk Reduction Program Science Seminar, Boulder, Colorado.
- 2016 *An Overview of ESRL Oil and Natural Gas Research.* Meeting with US EPA and Dept. of Justice environmental enforcement personnel, Boulder, Colorado.
- 2015 *Top-Down Emissions Studies using Atmospheric Observations and Modeling.* 17th Global Emissions Initiative Conference, Beijing, China.
- 2015 *Review of GEO-CAPE Emissions & Processes Working Group.* NASA GEO-CAPE Open Community Workshop, Research Triangle Park, North Carolina.
- 2015 *Satellite Observations - From Global to Megacities.* 2015 Gordon Research Conference on Atmospheric Chemistry, Waterville Valley, Vermont.
- 2015 *Investigating Power Plant Emissions and their Impacts on Air Quality and Climate.* 1st Electric Power Research Institute ENV-VISION Conference, Washington, DC.
- 2015 *Improving Emissions Understanding.* NOAA Earth System Research Laboratory/ Chemical Sciences Division Laboratory Review, Boulder, Colorado.
- 2014 *Emissions for Global Modeling - Trends and Uncertainties.* 13th AEROCOM Workshop, Steamboat Springs, Colorado.
- 2014 *Improving the Understanding of Emissions.* US Global Climate Research Program Chemistry-Climate Aerosol Process Group Emissions Meeting, Washington, DC.
- 2014 *Improving the Understanding of Emissions.* US Air Quality Research Subcommittee Meeting, Washington, DC.
- 2013 *Improving Our Understanding of Emissions: The Global Emissions Initiative (GEIA) and Regional Emissions Evaluations.* 2013 International Workshop on China's Emission Inventory, Beijing, China.
- 2013 *NOAA research to understand and quantify the atmospheric impacts of oil and natural gas operations.* Three-State Study Technical Workshop, Colorado State University, Ft. Collins, Colorado.
- 2013 *Understanding Surface Emissions by Multiple Approaches.* NOAA Earth System Research Laboratory/ Chemical Sciences Division Seminar, Boulder, Colorado.
- 2012 *Evaluating NO_x Emissions Using Satellite Observations.* 2012 American Geophysical Union Fall Meeting, San Francisco, California.
- 2012 *Community Efforts for Improved Access & Understanding of Emissions Data.* NASA Air Quality Applied Sciences Team 4th Meeting, Sacramento, California.
- 2012 *Emissions Metadata Needs.* Workshop on Metadata for Air Quality and Atmospheric Composition, Dublin, Ireland.
- 2012 *Addressing Science and Policy Needs with Community Emissions Efforts.* 2012 EPA International Emission Inventory Conference, Tampa, Florida.
- 2012 *Evaluating NO_x Emissions Using Satellite Observations.* 2012 EPA International Emission Inventory Conference, Tampa, Florida.

- 2012 *Addressing Science and Policy Needs with Community Emissions Efforts*. 45th Meeting of AGAGE Scientists and Cooperating Networks, Boulder, Colorado.
- 2012 *GEIA/ECCAD/CIERA Motivation, Overview, and HTAP Contributions*. Task Force on Hemispheric Transport of Air Pollution Meeting, Pasadena, California.
- 2011 *Evaluating NO_x Emissions Using Satellite Observations*. 2011 American Geophysical Union Fall Meeting, San Francisco, California.
- 2011 *Community Emissions Efforts*. US EPA Office of Research and Development, Research Triangle Park, North Carolina.
- 2011 *Community Emissions Efforts*. NOAA Climate Board Meeting, Boulder, Colorado.
- 2011 *Overview of US Anthropogenic Emissions Inventories, and the Community Initiative for Emissions Research and Applications*. Emissions in European and Related Projects Workshop, Hamburg, Germany.
- 2011 *Evaluating NO_x Emissions Using Satellite Observations*. EPA Working Group on Satellite Observations for Air Quality Management, Boulder, Colorado.
- 2010 *Community Emissions Research Initiative*. Joint Meeting of the CENR Air Quality Research Subcommittee & CCSP Atmospheric Composition Interagency Working Group, Washington, DC.
- 2009 *Evaluation of U.S. NO_x emissions using satellite-based observations and model simulations*. Department of Atmospheric Science, Colorado State University, Fort Collins, Colorado.
- 2008 *Observational Emission Evaluations*. Future Scientific and Policy Challenges in Tropospheric Composition, 5th ACCENT Barnsdale Expert Workshop, Barnsdale, United Kingdom.
- 2008 *A Measurements-Based Approach to Air Quality*. Department of Environmental Sciences and Energy Research, Weizmann Institute of Science, Rehovot, Israel.
- 2008 *Carbon Cycle Linkages to Air Quality*. ESRL Integrating Research Theme Presentation on Carbon Cycle Science, NOAA, Boulder, Colorado.
- 2008 *U.S. NO_x Emissions Evaluated by Space-based Observations and Model Simulations*. Advanced Study Program, National Center for Atmospheric Research, Boulder, Colorado.
- 2008 *U.S. NO_x Emissions Evaluated by Space-based Observations and Model Simulations*. Rendezvous 2008 – 3rd CIRES Science Symposium, University of Colorado, Boulder, Colorado.
- 2008 *A Measurements-Based Approach to Air Quality*. Graduate Course in Atmospheric Chemistry, Department of Chemistry, Ohio State University, Columbus, Ohio.
- 2008 *An Overview of Atmospheric Chemistry Research at the NOAA Earth System Research Laboratory in Boulder*. Graduate Course in Atmospheric Chemistry, Department of Chemistry, Ohio State University, Columbus, Ohio.
- 2007 *A Measurement-Based Approach to Air Quality*. NO_x Scientific Forum, Ozone Stakeholder Committee Meeting, Regional Air Quality Council, Denver, Colorado.
- 2007 *Observations and Modeling of US Power Plant NO_x Emission Reductions and Their Impact on Air Quality*. 2007 American Geophysical Union Fall Meeting, San Francisco, California.

- 2007 *Observations and Modeling of US Power Plant NO_x Emission Reductions and Their Impact on Air Quality*. Graduate Course in Pollution Control Systems, Department of Mechanical Engineering, University of Colorado, Boulder, Colorado.
- 2006 *Observations and Modeling of US Power Plant NO_x Emission Reductions and Their Impact on Air Quality*. Institute of Environmental Physics, University of Bremen, Bremen, Germany.
- 2006 *Observations and Modeling of US Power Plant NO_x Emission Reductions and Their Impact on Air Quality*. Department of Engineering and Applied Sciences, Harvard University, Cambridge, Massachusetts.
- 2005 *Using Models and Measurements to Understand Tropospheric Photochemistry*. Graduate Course in Atmospheric Chemistry, Department of Chemistry, Ohio State University, Columbus, Ohio.
- 2004 *Comparisons of Gas-phase and Aerosol Observations with the WRF-Chem Forecast Model during the 2002 New England Air Quality Study*. Department of Environmental Science and Energy Research, Weizmann Institute of Science, Rehovot, Israel.
- 2003 *Using Models and Measurements to Understand Tropospheric Photochemistry*. Graduate Course in Atmospheric Chemistry, Department of Chemistry, Ohio State University, Columbus, Ohio.
- 2000 *OH in the Troposphere*. Graduate Course in Atmospheric Chemistry, Department of Chemistry and Biochemistry, University of Colorado, Boulder, Colorado.
- 1999 *Comparisons of Model Calculations and Measurements of Formaldehyde from the 1997 North Atlantic Regional Experiment*. Second Gentner Symposium on Geoscience - Research Workshop on the Interactions between Chemistry, Physics and Dynamics in the Troposphere, Nazareth, Israel.